

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number
WO 2005/002944 A1

(51) International Patent Classification⁷: **B61L 23/14**

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(21) International Application Number:
PCT/KR2004/001642

(22) International Filing Date: 2 July 2004 (02.07.2004)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2003-0044620 2 July 2003 (02.07.2003) KR

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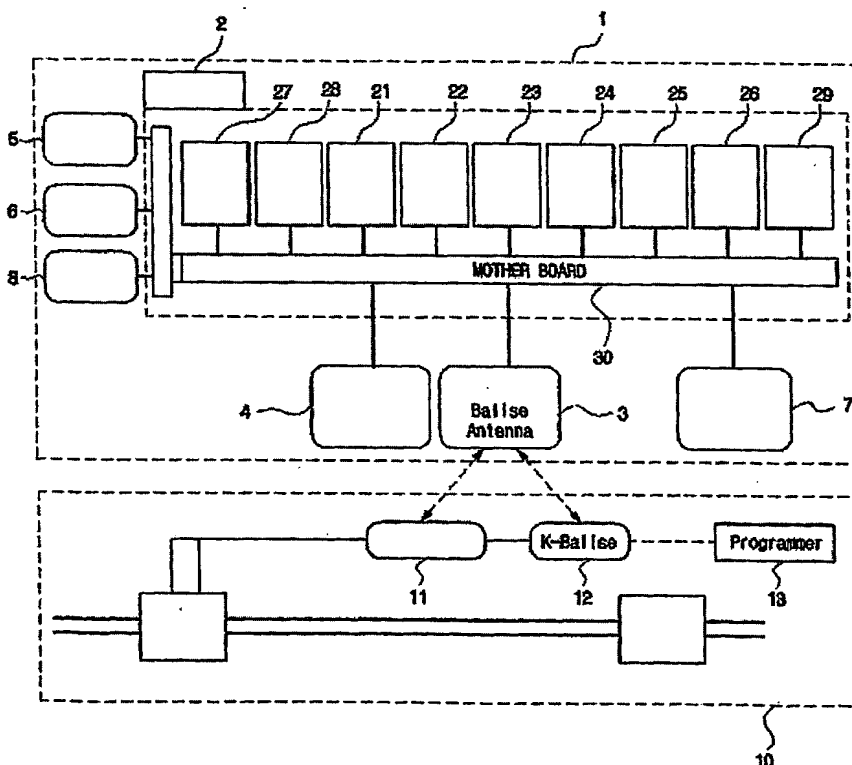
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: ATPS FOR CONTROLLING TRAIN USING DATA COMMUNICATION



(57) Abstract: The present invention relates to an automatic train protection stop (ATPS) device. The ATPS of the present invention is provided with both the functions of an automatic train protection (ATP) and an automatic train stop (ATS) by adding a K-Balise, on the ground, which is capable of transmitting ground information using a small air-gap data communication, and a ground information memory pack on a train. The present invention includes an on-board equipment including a main device, an on-board antenna, a speed detector connected to a shaft of wheel, an operation switch, a train controller, and a communication module; and a ground equipment including an ATS beacon connected to a track occupancy detection device, a K-Balise using data communication, and a program part for inputting ground information data to the K-Balise. According to the present invention, it is possible to implement the high-speed data communication and to secure the security and reliability by operating

in an available distance in electric source free scheme. Also, it has advantages of self-testing and operation recoding and maintaining functions and the improvement of the stability by protecting the no reaction and malfunctioning.

WO 2005/002944 A1



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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